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Data Sheet

August 15, 2026

HAMAMATSU

Hamamatsu C8137 Photon Counting Power Supply

Hamamatsu C8137 Photon Counting Power Supply with Temperature Control The C8137 is the AC-line power supply with thermoelectric temperature control for Hamamatsu H7421-series photon-counting heads. OEM H7421/C8137 literature lists 100 to 240 VAC input, generation of the thermoelectric-cooler and A7423 fan voltages needed by H7421, and thermistor-regulated cooler current that holds the PMT at 0 C. Companion M9011 is the on-board 12 V module that powers H7421 and controls the cooler from an I/O connector. C8137 is the benchtop/AC packaged controller. The C8137 is the AC-line power supply with thermoelectric temperature control for Hamamatsu H7421-series photon-counting heads. OEM H7421/C8137 literature lists 100 to 240 VAC input, generation of the thermoelectric-cooler and A7423 fan voltages needed by H7421, and thermistor-regulated cooler current that holds the PMT at 0 C. Companion M9011 is the on-board 12 V module that powers H7421 and controls the cooler from an I/O connector. C8137 is the benchtop/AC packaged controller. Stable photon-counting PMT operation with H7421 heads by holding photocathode temperature at 0 C.



MODEL

Hamamatsu C8137

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

C8137

LISTING

<https://aumictechlabs.com/products/c8137-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Hamamatsu C8137 Temperature Control and Power Supply Unit is an essential component for operating H7421 series photon counting heads. This unit has a stable and regulated power supply and precise temperature control, which is crucial for achieving optimal performance and minimizing noise in photon counting applications. By maintaining a constant temperature, the C8137 ensures the photon counting head operates within its specified parameters, leading to more accurate and reliable measurements.

C8137 Characteristics / Specifications

PARAMETER	VALUE
Model	C8137
Instrument Type	Photon-counting PMT power supply with temperature control
Host Detector	Hamamatsu H7421 series photon-counting head
Input Voltage	100 to 240 VAC
Cooler Function	thermoelectric cooler drive
Fan Supply	A7423 fan voltage
Set Temperature	0 C PMT temperature via thermistor regulation
On Board Sibling	M9011 12 V on-board supply with I/O cooler control
Manufacturer	Hamamatsu Photonics
Literature	Hamamatsu H7421 series / C8137 literature
Form Factor	benchtop AC power and TEC controller
Application Class	photon counting
System Role	H7421 power and temperature control
Use Case	low-noise photon counting at 0 C
Documentation Type	OEM H7421/C8137 datasheet
Control Class	thermistor-regulated TEC current
Mains Class	universal 100-240 VAC
Detector Class	H7421 photon-counting PMT head
Fan Class	A7423
Module Sibling	M9011 board-level 12 V unit
Temperature Class	0 C regulated photocathode
Brand Lineage	Hamamatsu Photonics
Year Class	H7421 photon-counting family
Output Class	TEC plus PMT/fan rails
Connector Class	H7421 harness to C8137

C8137 Specifications

PARAMETER	VALUE
Applications	Stable photon-counting PMT operation with H7421 heads by holding photocathode temperature at 0 C.
Key Features	100 to 240 VAC input
Thermoelectric cooler drive for H7421	A7423 fan supply
Thermistor loop holds 0 C	Benchtop companion to M9011
Technical Specifications	Model: C8137

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From Hamamatsu H7421 series literature (C8137 100-240 VAC, TEC and A7423 fan, thermistor loop to 0 C; M9011 12 V on-board sibling). Cooler current and PMT HV values are on the H7421/C8137 ratings table; do not invent mA or V figures.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.